



M 27318

Reg. No. :

Name :

II Semester M.A./M.Sc./M.Com. Degree (Reg./Sup./Imp.)
Examination, March 2015
(2013 & Earlier Admn.)
Botany

Paper B IV : PTERIDOLOGY AND GYMNOSPERMS

Time : 3 Hours

Max. Marks : 70

I. Answer **any two** of the following :

(2×10=20)

- 1) Give an account of Lycopodiales.
- 2) Write on the stelar evolution in pteridophytes.
- 3) Bring out the important features of Ephedra.
- 4) Give an account of the present and post distribution of gymnosperms.

II. Answer **any one** of the following :

(1×10=10)

- 5) Give an account of the economic importance of Pteridophytes.
- 6) What is fossilisation ? Write on the types of fossils.

III. Answer **any three** of the following :

(3×5=15)

- 7) Pinus - needle
- 8) Molecular phylogenetics
- 9) Habitats of pteridophytes
- 10) Vessels in pteridophytes
- 11) Welwitschia.

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(5×3=15)

IV. Answer **any five** of the following :

- 12) Dictyostele
- 13) Rhizophore
- 14) Microspore of cycas
- 15) Heterospory
- 16) Synangium
- 17) Polyembryony in gymnosperms.
- 18) Male cone in gnetum.
- 19) Impression.

V. Answer **any five** of the following :

- 20) Scale leaves
- 21) Megasporophyll in Pinus
- 22) Coralloid root
- 23) Plectostele
- 24) Hypodermis
- 25) Sorus
- 26) Stomium
- 27) Circinate vernation.

(3×5=15)